REMARKS

In the Office Action mailed March 30, 2009, the Examiner rejected claims

1 and 3-12 under 35 U.S.C. 103 as obvious over Worley (US 2003/0054141).

Applicant has amended claim 1 of the present application to traverse the

rejection based on prior art.

Worley teaches that the phase change material itself can be capable of

cross-linking in order to increase its toughness or its resistance to heat

moisture and chemicals. The crystalline alkyl hydrocarbons and the salt

hydrate phase change materials used in the present application are not

capable of cross-linking themselves into a polymer. However, in order to

prevent dissolution while in their liquid stages and to contain them in the

polymer, these phase change materials need to be embedded in a

polymeric structure which is cross-linked around them. Therefore, the use

of a cross-linking agent is crucial. The phase change materials need to be

applied to the system while in their liquid stage, in order to occupy the

maximum possible space within the structure. If they would be applied in

a solid stage, the cross-linked structure around them would later be

ruptured due to the expansion in volume when melting into a liquid.

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Worley teaches that the polymer may be capable of cross-linking in order

to increase its toughness or its resistance to heat moisture and chemicals.

Furthermore. Worley teaches that after the polymeric blend has been

applied to the substrate the polymers cross-linking feature is used to bond

to the substrate (0058). However, Worley does not teach that the cross-

linking feature is used to embed the phase change material into the

polymer structure and to prevent the dissolution of the phase change

material while in its liquid stage in this way.

In addition, Worley teaches a separate containment structure that

encapsulates, contains, surrounds, absorbs or reacts with the phase

change material. This containment structure may serve to reduce or

prevent leakage of the phase change material from the coated article

during end use (0043). In the present application no separate

containment structure is used in addition to the polymer.

Furthermore, in the art of the present application, cross-linking the

elastomeric material around the phase change material does not lead to

the changes in the molecular weight or the chain structure of the

elastomeric material taught by Worley ((0052).

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The claims as amended are now believed to be in condition for allowance and early action to that effect is earnestly solicited.

Respectfully submitted,

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